

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/002561

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B19/02 G06F3/033

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 052 644 A (TOKYO SHIBAURA ELECTRIC CO) 15 November 2000 (2000-11-15) abstract paragraph '0003! - paragraph '0018! claims 1-10; figure 69	1-10
Y	US 2002/054101 A1 (BEATTY ROBERT A) 9 May 2002 (2002-05-09) abstract paragraph '0006! - paragraph '0019!	1-10
A	EP 1 113 442 A (LG ELECTRONICS INC) 4 July 2001 (2001-07-04) the whole document	1,7-10
A	WO 02/071197 A (PHILIPS ELECTRONICS NA) 12 September 2002 (2002-09-12) the whole document	1-3,10
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

25 June 2004

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02/07/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 898 279 A (SONY CORP) 24 February 1999 (1999-02-24) the whole document -----	1-3, 10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/002561

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1052644	A	15-11-2000	JP 11215466 A	06-08-1999
			EP 1052644 A1	15-11-2000
			US 2003147629 A1	07-08-2003
			US 6553180 B1	22-04-2003
			CN 1291336 T	11-04-2001
			WO 9938167 A1	29-07-1999
US 2002054101	A1	09-05-2002	NONE	
EP 1113442	A	04-07-2001	KR 2001060616 A	07-07-2001
			CN 1304252 A	18-07-2001
			EP 1113442 A2	04-07-2001
			JP 2001238278 A	31-08-2001
			JP 2004007639 A	08-01-2004
			US 2001020958 A1	13-09-2001
WO 02071197	A	12-09-2002	WO 02071197 A1	12-09-2002
EP 0898279	A	24-02-1999	JP 11069284 A	09-03-1999
			CN 1212569 A	31-03-1999
			EP 0898279 A2	24-02-1999
			US 6469718 B1	22-10-2002